```cpp
//[環狀序列/Circular Sequenc]
#define IN "P0310IN.txt"
#define OUT "P0310OUT.txt"
//**********************************
#include <iostream>
#include <time.h>
using namespace std;
void redir(void);
//**********************************
/* Work Space*/
int less(char *s, int p, int q);
//**********************************
int main(void)
{
    redir(); //redirection
//**********************************
/* Work Space*/
    int T;
    char s[101];
    int ans;
    int n;
    int i;

    scanf("%d", &T);

    while(T--){
        scanf("%s", s);
        ans = 0;
        n = strlen(s);

        for(i=1; i<n; i++){
            if(less(s, i, ans)){
                ans = i;
            }
        }

        for(i=0; i<n; i++){
            putchar(s[(ans+i) % n]);
        }
        putchar('\n');
    }
//**********************************
    freopen("CON", "r", stdin); //取消重新導向
    freopen("CON", "w", stdout);

    printf("Time used = %.2f\n", (double)clock()/CLK_TCK); //傳回程式目前為止執行的時間

    system("pause");
    return 0; //the end...
}

void redir(void)
{
    freopen(IN, "r", stdin);
    freopen(OUT, "w", stdout);
}
//**********************************
/* Work Space*/
//環狀字串s的標記法p是否比標示法q的字典序小
int less(char *s, int p, int q)
{
```

```cpp
    int n;
    int i;

    n = strlen(s);

    for(i=0; i<n; i++){
        if(s[(p+i) % n] != s[(q+i) % n]){
            return s[(p+i) % n] <  s[(q+i) % n];
        }
    }
    return 0;
}
```